Abbreviations and Acronyms

Acatech National Academy of Science and Engineering

Al Artificial intelligence

AiF German Federation of Industrial Research Associations (Arbeitsgemeinschaft industrieller Forschungsvereinigungen "Otto

von Guericke")

ANSI American National Standards Institute

Federal Institute for Materials Research and Testing RAM **BERD** Business expenditure on research and development **BMAS** Federal Ministry of Labour and Social Affairs **BMBF** Federal Ministry of Education and Research **BMDV** Federal Ministry for Digital and Transport **BMEL** Federal Ministry of Food and Agriculture **BMFT** Federal Ministry for Research and Technology BMI Federal Ministry of the Interior and Community

BMVg Federal Ministry of Defence

BMWK Federal Ministry for Economic Affairs and Climate Action
BMWi Federal Ministry for Economic Affairs and Energy

CAGR Compound annual growth rate

CCA Climate Change Act

CERN European Organization for Nuclear Research
CNIPA China National Intellectual Property Administration

CNRS French National Centre for Scientific Research (Centre national de la recherche scientifique)

DAkks German Accreditation Body (Deutsche Akkreditierungsstelle GmbH)

DARPA U.S. Defense Advanced Research Projects Agency

DFG German Research Foundation (*Deutsche Forschungsgemeinschaft*)
DKE German Commission for Electrical, Electronic & Information Technologies

DSL Digital subscriber line technology

DZHW German Centre for Higher Education Research and Studies (Deutsche Zentrum für Hochschul- und

Wissenschaftsforschung)

EFI Commission of Experts for Research and Innovation (Expertenkommission Forschung und Innovation)

EIB European Investment Bank
EIF European Investment Fund

EMBL European Molecular Biology Laboratory

EPO European Patent Office

ERP European Recovery Programme
ESOP Employee stock ownership option plans

EUR Euro

EXIST - University-Based Business Start-Ups (Existenzgründungen aus der Wissenschaft) support programme

FhG Fraunhofer Society
FTE Full-time employment

GBARD Government budget allocations for research and development
GRBARD Government real budget allocations for research and development

GDP Gross domestic product
GDR German Democratic Republic

GERD Gross expenditure on research and development

GHG Greenhouse gas emissions

GNI Gross national income

GWK Joint Science Conference (Gemeinsame Wissenschaftskonferenz)

HEI Higher education institution

HTGF High-Tech Founders Fund (High-Tech Gründerfonds)

HTS High-Tech Strategy

ICT Information and communication technology

IGF Industrial Collective Research (Industrielle Gemeinschaftsforschung)

IGP Innovation Program for Business Models and Pioneering Solutions (Innovationsprogramm für Geschäftsmodelle und

Pionierlösungen)

INVEST Invest – Grant for Venture Capital (Zuschuss für Wagniskapital)

IPCEI Important Project of Common European Interest

IT Information technology
ITF International Transport Forum

JPO Japan Patent Office

KATS Korean Agency for Technology and Standards

KPO Korean Patent Office
KSA Korea Standards Association
Mbps Megabits per second
ML Machine learning
PCT Patent Cooperation Treaty

PIAAC OECD Programme for the International Assessment of Adult Competencies

PPP Purchasing power parity
PPP Public-private partnership
PRO Public research organisation
RTA Revealed technological advantage

PTB National Metrology Institute of Germany (Physikalisch-Technische Bundesanstalt)

R&I Research and innovation REEs Rare earth elements

RRF Recovery and Resilience Facility of the European Union

SME Small and medium-sized enterprise

SPRIND Federal Agency for Disruptive Innovation (Agentur für Sprunginnovationen)

STI Science, technology and innovation

SWOT Strengths, weaknesses, opportunities and threats
TNO Netherlands Organisation for Applied Scientific Research

TTO Technology transfer office
TU Technical university
USD United States dollar

USPTO United States Patent and Trademark Office

VC Venture capital

VDE Association for Electroics & Information Technologies (Verband der Elektrotechnik, Elektronik und

Informationstechnik)

VET Vocational education and training
VTT Technical Research Centre of Finland

WGL Leibniz Association (Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz)

ZEW Leibniz Centre for European Economic Research

ZIM Central Innovation Programme for SMEs (Zentrales Innovationsprogramm Mittelstand)

ZLS Central Authority of the Federal States for Safety Engineering (Zentralstelle der Länder für Sicherheitstechnik)



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